

ABSTRACT OF THE DISCLOSURE

Sub a9

A humidifier having a plurality of water-permeable hollow fiber membranes placed along the lengthwise direction of a housing accommodated within the housing in which gases each having a different moisture content flow inside and outside the hollow fiber membranes to carry out moisture exchange whereby the dry air having a low moisture content is humidified is disclosed. The humidifier comprises a bypass channel having a larger diameter than that of the hollow fiber membrane, in which the gas flowing outside the hollow fiber membrane, formed on an approximately central portion of the cross-lengthwise direction of the housing along the lengthwise direction of the housing, and an inlet which introduces the gas flowing outside the hollow fiber membrane into the housing and an outlet which discharges the gas flowing outside the hollow fiber membrane formed on the bypass channel.